

CLAIMS

1. An arrangement for an alternating-current machine (2) that can be connected to an inverter, said machine including windings (8) located in grooves (6) and insulated from the plate core (4) of the machine, **characterised** in that an electrically conductive shield
5 (20;22,24;26) is fitted between the windings (8) and the plate core (4), said shield comprising a number of parallel strips (22;26) separated from each other and insulated from the plate core, extending essentially over the length of the groove (6), earthed (23;36) or connected to the plate core.
2. An arrangement according to claim 1, **characterised** in that the shield (22,24;26) is
10 earthed at the end where the winding is connected.
3. An arrangement according to claim 1, **characterised** in that the shield is formed of axial strips (22;26) galvanically separated from each other within the area of the groove.
4. An arrangement according to claim 1, **characterised** in that the conductive strip is aluminium.
- 15 5. An arrangement according to claim 1, **characterised** in that the thickness of the conductive strip is in the order of 0.1 mm.
6. An arrangement according to claim 1, **characterised** in that the electrically conductive strips (22) are formed of a conductive layer on top of an insulating layer (24) where the conductive layer is removed from strips (28) essentially parallel to the groove.
- 20 7. An arrangement according to claim 1, **characterised** in that the electrically conductive strips essentially cover the bottom and walls of the groove (6).
8. An arrangement according to claim 1, **characterised** in that the conductive strips are connected to each other at the end of the groove by means of a conductive link that is further earthed or connected to the plate core.

9. An arrangement according to claim 1, **characterised** in that the shield is formed of a ribbon or tape (26) comprising a conductive layer and an insulating layer, wound around the winding (29,30) at least over the area of the winding fitted in the groove.